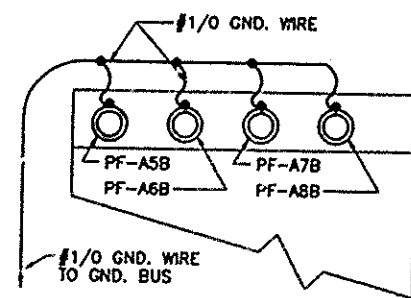


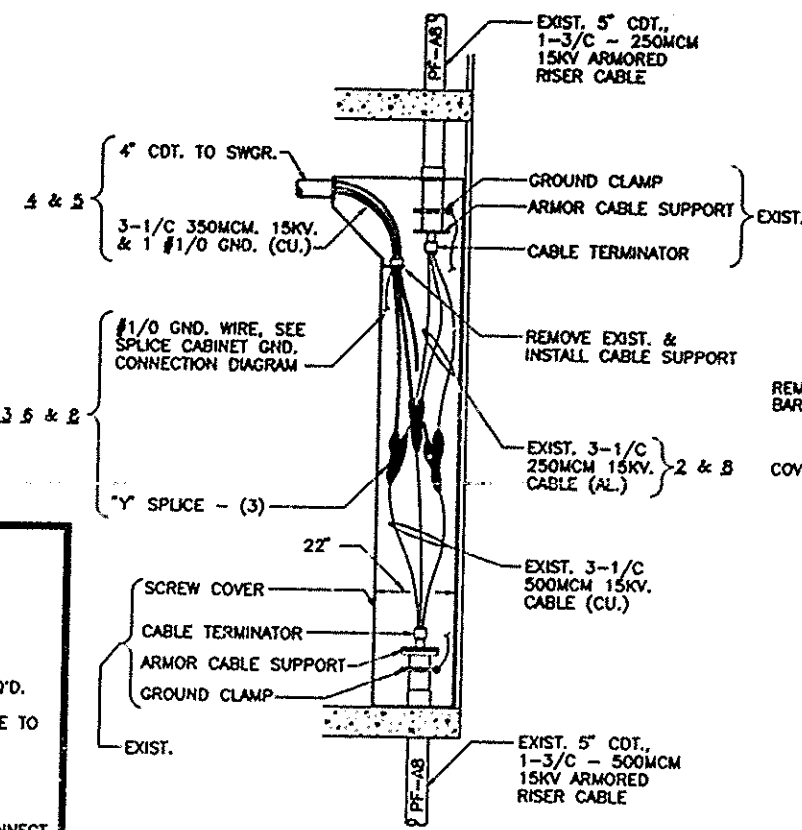
SPLICE CABINET GROUND CONNECTION DIAGRAM
TYPICAL FOR STEP 3 & 6
NOT TO SCALE



SECTION a-a

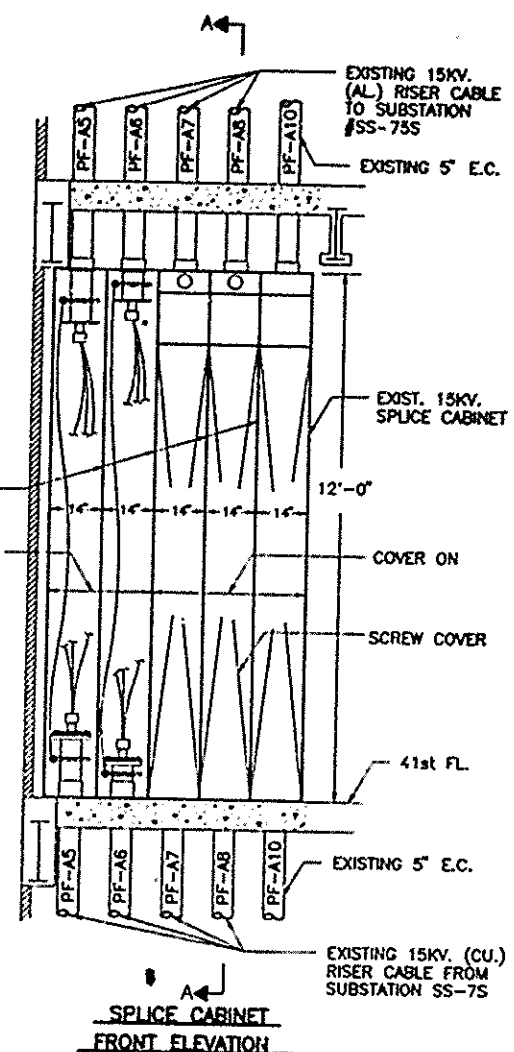
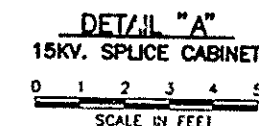
STEPS REQUIRED FOR 15KV. FEEDER INSTALLATION

- 1 - DE-ENERGIZE FEEDER.
- 2 - REMOVE EXIST. ARCPROOFING.
- 3 - BREAK EXIST. SPLICES (3) AND DISCONNECT GND. WIRE AS REQ'D.
- 4 - REMOVE EXIST. CONDUIT & WIRE TO 1500KVA TRANSF. SWITCH.
- 5 - INSTALL CONDUIT & WIRE TO 2000KVA TRANSF. BKR. HV-B.
- 6 - RE-MAKE SPLICES (3) AND CONNECT GND WIRING AS SHOWN. (REMOVE BARRIER IF REQ'D.)
- 7 - MAKE CONNECTIONS AT 2000KVA TRANSF. BKR. HV-B.
- 8 - INSTALL ARCPROOFING.
- 9 - TEST FEEDER AND RE-ENERGIZE.



SECTION A-A

NOTE: PF-A5, A6, & A7 ARE TYPICAL



SPICE CABINET
FRONT ELEVATION

NOTES

- 1.- FOR LEGEND SEE DWG. E-1, FOR
GENERAL NOTES, ABBREVIATIONS,
AND LIGHTING FIXTURE SCHEDULE
SEE DWG. E-2
- 2.- FOR CONSTRUCTION STAGING SEE
DWG. #CS-1
- 3.- FOR WORK PERFORMED ON SUBSTATION
SS-6 IN SECTION II & III SEE THE
FOLLOWING DRAWINGS:
- * STAGE II ONLY
- DWG #E-5 -- TYPICAL SUBSTATION
DWG #E-32-- LOAD TRANSFER
- * STAGE III ONLY
- DWG #E-6 -- TYPICAL SUBSTATION
DWG #E-32 & 33 -- LOAD TRANSFER
- * COMBINED STAGE II & III
- DWG #E-25 (THIS DWG SWGR. EQUIP.
#E-26 " ARROW ONS LINE QUANTITY)
DWG #E-27 " CDT. & CABLE SCHED.
DWG #E-28 " SWGR. EQUIP. PLAN
DWG #E-29 " FL CONTROL, CDT
DWG #E-30 " 42nd FL COT LAYOUT
DWG #E-31 " 42nd FL COT LAYOUT

Sheet **111** of **224**



**THE PORT AUTHORITY
OF NY & NJ**

ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER
for *[Signature]*
CHIEF ELECTRICAL ENGINEER

Engineering Department				
Design Divisions				

The World Trade Center Electrical/HVAC Upgrade Program

**TOWER ONE AND TWO
LOW VOLTAGE
SUBSTATIONS
CONSTRUCTION AND
INSTALLATION**

ELECTRICAL

SUBSTATION SS-41S
STAGE II AND III
SWITCHGEAR EQUIPMENT
RISER DIAGRAM

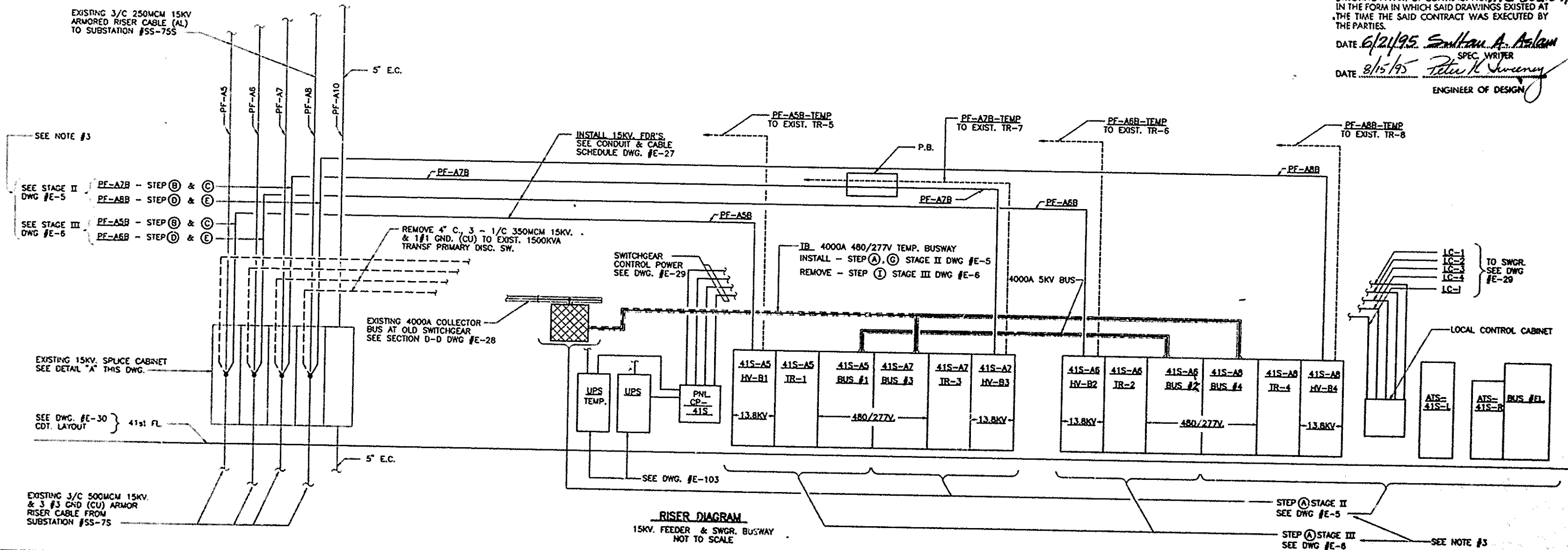
No.	Date	Revision	Approved
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This drawing subject to conditions in contract
All inventions, ideas, designs and methods
herein are reserved to Port Authority and
may not be used without its written consent

LEAHY/ FISCHER	LEAHY	A.S.
Designed by	Drawn by	Checked by

Date 5-1-85 Seals AS NOTED

Contract Number **WTC 802.071** Drawing Number **E-25**



RISER DIAGRAM

15KV. FEEDER & SWGR. BUSWAY
NOT TO SCALE

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.07 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/24/95 William A. Aslam
SPEC. WRITER

DATE 8/15/95 Peter K. Kennedy
ENGINEER OF DESIGN

FILE NAME: 60271E15 APR 13 1985